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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,374	03/19/2004	Hang-Dony Kuan	TI-36952	7211

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TEXAS INSTRUMENTS INCORPORATED
P O BOX 655474, M/S 3999
DALLAS, TX 75265

EXAMINER

VAZQUEZ, ARLEEN M

ART UNIT	PAPER NUMBER
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2829

NOTIFICATION DATE	DELIVERY MODE
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06/14/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@ti.com
uspto@dlemail.itg.ti.com

Office Action Summary	Application No. 10/804,374	Applicant(s) KUAN ET AL.	
	Examiner Arleen M. Vazquez	Art Unit 2829	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 and 12-16 is/are pending in the application.
 4a) Of the above claim(s) 1-5, 9 and 15-16 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 6-8 and 12-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Arguments filed on 04/04/2007 identify claims 10 and 11 as being cancelled, but no new set of claims was received with the proper status of the claims. Therefore claims 10 and 11 will be considered as cancelled claims. Correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 6-8 and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by ***Hembree (US 6,400,169)***.

As to claim 6, ***Hembree*** discloses in Figures 7A and 7B a system (90) for testing a singulated semiconductor device (10) comprising a socket (92) for receiving a DUT (10), the socket having pins (96) with ends (108) for making electrical contact with the DUT (10) and opposing ends (104) for making contact with a test board (98), the test board (98) adjoining the socket (92), the test board (98) having pin receptacles (106) for receiving the opposing ends (104) of the pins (96); and measuring means (100) operably coupled to the test board pins receptacles (106) for measuring electrical signals in the DUT(10).

As to claims 7 and 8, ***Hembree*** discloses in Figures 7A and 7B the receptacles (106) are generally conical basin for receiving the pin (96 and 104).

As to claim 12, **Hembree** discloses in Figures 7A and 7B a test board (98) for use in association with semiconductor device automatic test equipment (90, test equipment 90 is considered to be automatic because is connect to test circuitry which is sending signals to test device 10 and no interface of a human operator is needed to perform the tests) and a socket (92), the socket having pins (96) and adapted for receiving a device under test (10), the test board comprising a contact area (area where receptacles 106 are situated) for operably coupling a pin (96 and 104) to the ATE (90); a pin receptacle (106) on the contact area for receiving a pin (96 and 104), for thereby making staunch electrical contact between the pin (96 and 104) and contact point (middle part of receptacle 106).

As to claims 13 and 14, **Hembree** discloses in Figures 7A and 7B the receptacles (106) are generally conical basin for receiving the pin (96 and 104).

4. Claims 6-8 and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by **Frederickson et al. (US 5,955,888)**.

As to claim 6, **Frederickson et al.** discloses in Figures 6A, 6B and 7A a system (600) for testing a singulated semiconductor device (100) comprising a socket (650,646,640,670) for receiving a DUT (100), the socket having pins (620) with ends (624,626) for making electrical contact with the DUT (100) and opposing ends (622) for making contact with a test board (610), the test board (610) adjoining the socket (650,646,640,670), the test board (610) having pin receptacles (616,618) for receiving the opposing ends (622) of the pins (620); and measuring means (616, Col. 5 lns 53-60)

operably coupled to the test board pins receptacles (616,618) for measuring electrical signals in the DUT(100).

As to claims 7 and 8, ***Frederickson et al.*** discloses in Figures 6A, 6B and 7A the receptacles (616,618) are generally conical basin for receiving the pin (620 and 622).

As to claim 12, ***Frederickson et al.*** discloses in Figures 6A, 6B and 7A a test board (610) for use in association with semiconductor device automatic test equipment (616, Col. 5 lns 53-60) and a socket (650,646,640,670), the socket having pins (620) and adapted for receiving a device under test (100), the test board (610) comprising a contact area (area where receptacles 618 are situated) for operably coupling a pin (620 and 622) to the ATE (616, Col. 5 lns 53-60); a pin receptacle (616,618) on the contact area for receiving a pin (620 and 622), for thereby making staunch electrical contact between the pin (620 and 622) and contact point (middle part of receptacle 616,618).

As to claims 13 and 14, ***Frederickson et al.*** discloses in Figures 6A, 6B and 7A the receptacles (616,618) are generally conical basin for receiving the pin (620 and 622).

Response to Arguments

5. Applicant's arguments filed 04/04/2007 have been fully considered but they are not persuasive.

Webster's Dictionary defines the word *receptacle* as one that receives and contains something, a mounted female electrical fitting.

Applicant argues that the Hembre reference does not show pin receptacles in the test board. Hembre reference shows in Figure 7B *electrical receptacles* 106 in the test board 98 for receiving ends 104 of pins 96, see Col.9 Ins 54-56. Therefore Hembre reference does disclose pin receptacles.

Applicant argues that the Frederickson reference does not show pin receptacles in the test board. Frederickson reference shows in Figure 6B *electrical receptacles* 618 in combination with via 616 in the board 610 for receiving ends 622 of pins 620, see Col.6 Ins 34-39. Therefore Frederickson reference does disclose pin receptacles.

Applicant's arguments, see page 3, filed 04/04/2007, with respect to the Bardsley reference does not show pin receptacles in the test board and that the Motooka reference does not show pin receptacles in the test board, have been fully considered and are persuasive. The non-final action of 12/04/2006 ^{based on these references} has been withdrawn.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arleen M. Vazquez whose telephone number is 571-272-2619. The examiner can normally be reached on Monday to Friday, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ha Nguyen can be reached on 571-272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMV



HA TRAN NGUYEN
SUPERVISORY PATENT EXAMINER

6/9/7